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File ICV 91

25X1

Subject: Meeting with Dept. of Defense on 21 December 1955

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Present: ✓

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A discussion of H-2061 work performed at [redacted] brought out the following:

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1. A Navy Pulse Analyzer Model RDJ-1 (NAVSHIPS 900, 253A, Radio Receptor Co.) is to be used as pulse analyzing equipment for shipboard use in place of the Tektronix. It is expected that a GLE unit for lab use can be obtained through the Dept. of Defense.

2. For the time being, it is to be assumed that an Ampex 800 Tape Recorder will be used as the multiple channel recording equipment. More data on the exact specifications of the recorder which will actually be used is to be forthcoming when available. The equipment bandwidths are not to be based on the recorder capabilities. The equipment is to be designed for possible future wide band recorders.

3. Until further, more definite information is available, it is to be assumed that the camera used for photographing the console display will be one of the Fairchild models suitable for such use. In any event, the equipment will be designed to actuate a relay upon reception of a signal on any band.

4. The headphones to be used will be assumed to have an impedance of 1000 ohms and a maximum signal level capability of 0.5 milliwatt.

5. The combining amplifiers are to have either positive or negative pulse output. Only one polarity will be used (negative for the RDJ-1 Pulse Analyzer) at a time, therefore the unused circuit will be disabled by means of a jumper wire. This is for use with pulse analyzers requiring positive signals.

6. If a maintenance light is used in the antenna structure it is to be designed for 24 V D-C.

7. An unanswered question is that of the radar aboard ship. The possibility of pattern interference, jamming and burnout exists. It is still desirable to see the vessel in order to answer this question and other mechanical unknowns. An actual inspection trip would be very beneficial, if it is at all possible within the limits of the continental USA.

8. It is expected that the console unit will be housed in the cabin located directly below the antenna assembly.

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9. The problem of pattern interference and of radiated signals from existing antennas has not been solved. One solution is to remove existing antennas and to use the H-2061 antenna or a modification thereof as the antenna for H-2061 equipment and the existing equipment. Another answer is to place the high frequency elements of the H-2061 antenna high enough above existing antennas so as not to distort horizontal patterns.

10. Any vertical tilt of the low frequency dipoles due to mounting arrangements is not expected to cause serious directional errors. It is thought that vertical beam directivity is not sharp enough to affect signal intensity in the forward and aft directions. This will be checked by pattern measurements.

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